

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

5 (A) NAME: TRANSGENE
(B) STREET: 11, rue de Molsheim
(C) CITY: STRASBOURG
(E) COUNTRY: FRANCE
(F) POST CODE: 67082
10 (G) TELEPHONE: (33) 88.27.91.00
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(ii) TITLE OF INVENTION: New defective adeno-
viruses and corresponding complementation
lines

(iii) NUMBER OF SEQUENCES: 42

15 (iv) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Tape
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
20 (D) SOFTWARE: PatentIn Release #1.0,
Version #1.25 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 30 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

30 (vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG4174)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GTGACGTCTT TGGTGTTC GCGGAAAC

30

35 (2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

40 (A) LENGTH: 30 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

ACCGAGTAAG ATTTGTCTAG GGCCGCGGGG

30

(2) INFORMATION FOR SEQ ID NO: 3:

10 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 33 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

20 (A) ORGANISM: Synthetic oligonucleotide
(OTG4191)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGCCATGGTC GCGGGAAAGG GACTTTGACC GTT

33

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 31 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

30 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5021)

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GAACGGATCC CCAGACTCTG TTTGGATTTG G

31

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 30 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5157)

CCAGAAATAT CTTCGCCAG GCCGCCGCC 30

(i) SEQUENCE CHARACTERISTICS:

20 (A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

25 (vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG5564)

GATCCGATAT CCCGTTAACC 20

30 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

35 (ii) MOLECULE TYPE: DNA (genomic)
 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5565)

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GATCGGTTAA CGGGATATCG

20

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 47 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

15 (iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5892)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

20 GTCGTAGGAT CCAGCTGCTC CCTGCTTGTG TGTTGGAGGT CGCTGAG 47

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 47 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

30 (vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5893)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

GTAGCTGACG TCCCAGGTGC ACACCAATGT GGTGAATGGT CAAATGG 47

35 (2) INFORMATION FOR SEQ ID NO: 10:

5.

- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

15

20

- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

30

- (ii) MOLECULE TYPE: DNA (genomic)

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG6079)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

5 GCGCAGTTGC TCTGCGGATC CACTTAACAT TCACT 35

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 38 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

15 (vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG6080)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

TAAAAGTACC AGGTAAGGAT CCCCTTGGTT TGCTTGGG 38

20 (2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 21 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

30 (vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG6064)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GAAACCGAAT TCTCTTGGA C 21

(2) INFORMATION FOR SEQ ID NO: 15:

35 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 32 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

10 (A) ORGANISM: Synthetic oligonucleotide
(OTG6065)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

ACGAATGCAG CTCTCCACTT AACATTCACT CG

32

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- 15 (A) LENGTH: 27 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

20 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5481)

25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

CAGTGAATTC ATCATCAATA ATATACC

27

(2) INFORMATION FOR SEQ ID NO: 17:

(i) SEQUENCE CHARACTERISTICS:

- 30 (A) LENGTH: 24 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

35 (iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5482)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

AAACTGGTCA CCGTGATTAA AAAG

24

5 (2) INFORMATION FOR SEQ ID NO: 18:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 25 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

15 (vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5455)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

ATCGGAATTC AAGATGATTA GGTAC

25

(2) INFORMATION FOR SEQ ID NO: 19:

20 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 28 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

25 (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

30 (A) ORGANISM: Synthetic oligonucleotide
(OTG5456)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

ATCGTCTAGA TTAAGGCATT TTCTTTTC

28

(2) INFORMATION FOR SEQ ID NO: 20:

(i) SEQUENCE CHARACTERISTICS:

35 (A) LENGTH: 18 base pairs

(ii) MOLECULE TYPE: DNA (genomic)

5 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG5728)

10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
TGTAGCAGGA GGACTAAG 18

(2) INFORMATION FOR SEQ ID NO: 21:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 39 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

20 (iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG5729)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

25 CCGCATTAAT TAACCGCGAC AAACGATTCT TTATTCTTG 39

(2) INFORMATION FOR SEQ ID NO: 22:

(i) SEQUENCE CHARACTERISTICS:

30 (A) LENGTH: 36 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

35 (vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide

(OTG5730)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

CGCGGTTAAT TAATGCGGTA AAACCTACGT CACCCG

36

(2) INFORMATION FOR SEQ ID NO: 23:

5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

15 (A) ORGANISM: Synthetic oligonucleotide
(OTG6060)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

AATAAAAGAT CATTATTTTC ATTAGAACTG

30

(2) INFORMATION FOR SEQ ID NO: 24:

(i) SEQUENCE CHARACTERISTICS:

- 20
- (A) LENGTH: 24 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

25 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG6061)

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

TGTGTTGGTT TTTTGTGTGT TAAT

24

(2) INFORMATION FOR SEQ ID NO: 25:

(i) SEQUENCE CHARACTERISTICS:

- 35
- (A) LENGTH: 30 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

5 (iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG6062)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

10 TAACACACAA AAAACCAACA CACAGTTCTA

30

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

15 (A) LENGTH: 24 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

20 (vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG6063)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

ATGAAAATAA TGATCTTTTA TTAT

24

25 (2) INFORMATION FOR SEQ ID NO: 27:

(i) SEQUENCE CHARACTERISTICS:

30 (A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

35 (A) ORGANISM: Synthetic oligonucleotide
(OTG4564)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

TCCGTGAATT CTAGTAGTGT GGCGGAAGTG TG

32

(2) INFORMATION FOR SEQ ID NO: 28:

(i) SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH: 23 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

10 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG4565)

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

TCCAGTCCGG AGAACCGGGC GCC

23

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

- 20 (A) LENGTH: 28 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

25 (iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5013)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

30 TAACCTGCAG GAGTGCCAGC GAGTAGAG

28

(2) INFORMATION FOR SEQ ID NO: 30:

(i) SEQUENCE CHARACTERISTICS:

- 35 (A) LENGTH: 21 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

5 (A) ORGANISM: Synthetic oligonucleotide
(OTG5015)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

CAACGCGCAT GCCCCCATGG G 21

(2) INFORMATION FOR SEQ ID NO: 31:

10 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 31 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

20 (A) ORGANISM: Synthetic oligonucleotide
(OTG5014)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

TAGGAGATCT GTTTTAAACC GCATTGGGAG G 31

(2) INFORMATION FOR SEQ ID NO: 32:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 34 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

30 (iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

35 CGGAGTACTG TCCTCCGCGG AGTACTGTCC TCCG 34

(2) INFORMATION FOR SEQ ID NO: 33:

(i) SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH: 34 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

10 (vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

CGGAGGACAG TACTCCGCGG AGGACAGTAC TCCG

34

(2) INFORMATION FOR SEQ ID NO: 34:

15 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 16 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

20 (ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

25 (A) ORGANISM: Synthetic oligonucleotide
(OTG5039)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

TGCTGGATAT CAGTCA

16

(2) INFORMATION FOR SEQ ID NO: 35:

(i) SEQUENCE CHARACTERISTICS:

- 30 (A) LENGTH: 24 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

35 (iii) HYPOTHETICAL: NO

0004044-1-00000

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5040)

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

GATCTGACTG ATATCCAGCA TGCA

24

(2) INFORMATION FOR SEQ ID NO: 36:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 20 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

15 (iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5024)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

20 CTCCTGCCTA GGCAAAATAG

20

(2) INFORMATION FOR SEQ ID NO: 37:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 32 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

30 (vi) ORIGINAL SOURCE:

(A) ORGANISM: Synthetic oligonucleotide
(OTG5025)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:

GCAGATGGAT CCGGGCGGAG TAACTTGTAT GT

32

35 (2) INFORMATION FOR SEQ ID NO: 38:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 31 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

5

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

(vi) ORIGINAL SOURCE:

10 (A) ORGANISM: Synthetic oligonucleotide
(OTG5078)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:

GTCGCGGATC CGTTATGTTT CAACGTGTTT A 31

(2) INFORMATION FOR SEQ ID NO: 39:

15

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

20

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

(vi) ORIGINAL SOURCE:

25 (A) ORGANISM: Synthetic oligonucleotide
(OTG5079)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:

ACATGAACTT AAGCGAGCTG 20

(2) INFORMATION FOR SEQ ID NO: 40:

(i) SEQUENCE CHARACTERISTICS:

30

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

35

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

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(vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG5991)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:

5 CACGGCACCA GCTCAAGTTA ACGGATCCAT CTGCGGGT 38

(2) INFORMATION FOR SEQ ID NO: 41:

(i) SEQUENCE CHARACTERISTICS:

10 (A) LENGTH: 27 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: NO

15 (vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG6141)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GATCCTGTGT GTTGGTTTTT TGTGTGC 27

20 (2) INFORMATION FOR SEQ ID NO: 42:

(i) SEQUENCE CHARACTERISTICS:

25 (A) LENGTH: 27 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(iii) HYPOTHETICAL: NO

(iii) ANTISENSE: YES

30 (vi) ORIGINAL SOURCE:
(A) ORGANISM: Synthetic oligonucleotide
(OTG6142)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GATCGCACAC AAAAAACCAA CACACAG 27

66222 210400